

NR 445 Technical Advisory Group

Regulating Asphalt Fume

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Bureau of Air Management



Proposal to Regulate Asphalt Fumes in NR 445

- Members of the Wisconsin Transportation Builders Association (WTBA), Wisconsin Asphalt Pavement Association (WAPA), National Asphalt Pavement Association (NAPA) & the Asphalt Institute (AI) expressed concern that establishing an emission standard based on an off-site impact from fumes would be problematic for the following reasons:
 - different characteristics of asphalt fumes coming from a variety of sources using different crude stock; and
 - demonstrating compliance using traditional testing methods would be difficult, if not impossible.



Proposal to Regulate Asphalt Fumes in NR 445

- The Department has evaluated information:
 - provided by WTBA, WAPA, NAPA & AI;
 - obtained during an on-site visit to a large asphalt plant; &
 - ♦ in the Dec. 2000 US EPA Hot Mix Asphalt Plants Emission Assessment Report.
- ◆ After evaluating the information & considering the quantification issues the Department has determined that regulating asphalt fume, in addition to regulating the specific chemicals & compounds that make up the fume, would provide for little additional environmental benefit.



Revised Proposal (October 2001)

- ◆ Emissions of asphalt fumes would be regulated as follows under the current proposal:
 - use the 51 specific standards for 35 chemicals and compounds which make up the asphalt fume;
 - standards apply to sources of asphalt production & processing
- ◆ Remove asphalt fume from the list of proposed HAPs for NR 445 and NR 438.



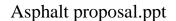
Additional Details of Current Proposal

- Chemicals and compounds associated with the production of asphalt
 - ◆ see table
- ◆ Sources Subject to the Standard at an Asphalt Plant
 - Mixing (batch, drum mix)
 - Conveying (silos)
 - Load Out (truck loading)
 - Storage (tanks)



Additional Details of Current Proposal

- ◆ Effective dates, compliance deadlines & demonstrations would be consistent with all other sources
 - new and modified source at start up;
 - existing sources along compliance schedule;
 - all methods will be available for quantifying emissions & demonstrating compliance
 - ◆ emission factors, stack test, mass balance, etc
 - dispersion modeling





NR 438 Reporting Thresholds

- ♦ Set consistent with all other hazardous air pollutants.
- Reporting will be required for any chemical or compound that is emitted above the proposed NR 438 values on an annual basis.

Asphalt proposal.ppt

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